

GS484879 C11800

GIINANDPLPFWFMS--PYTPGPAPIDINASRALVS-NESG

WQGTHFPYT CDR3L

LVSKNDSG CDR2L

(5/9 = 55.5 %)

(7/8 = 87.5 %)

CLONE 17

DL-SRNLDFGRFLLYNA--YVPGFTPTFISLTAEHLSSPKG

LVSKN-DSG

WQGTHF-P-YT

CDR2L

CDR3L

(6/8 = 75 %)

(6/9 = 66.6 %)

CLONE 15

CGRAYCL-SGNYNIFGALFPGVS--TPYADVGHDDAQSWRR

LVSKN-DS-G WQG-THFPYT

CDR2L

CDR3L

(4/8 = 50 %) (6/9 = 66.6 %)

CLONE 13

RCSPIW-GIS-YPFGLLSSNPGVCHSSDAET-NIRNDILTT

WQG-THFPYT

GSDN-K-SVL

CDR3L

CDR2L(REV)

(6/9 = 66.6 %)

(4/8 = 50 %)

CLONE 16

GHSNYCFVSTLGMPIVGFP-SINARGLIHYGGSDPR--LAA

WQGTHFPYT

GSDNKSVL

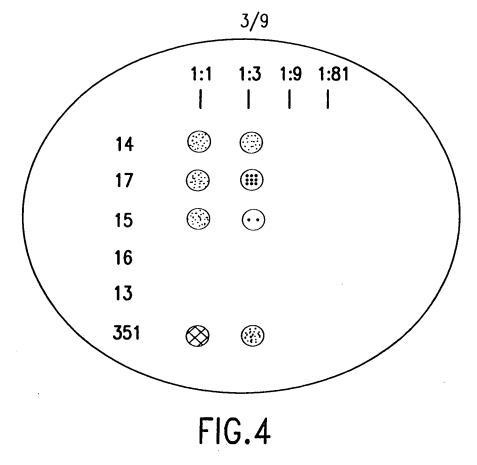
CDR3L

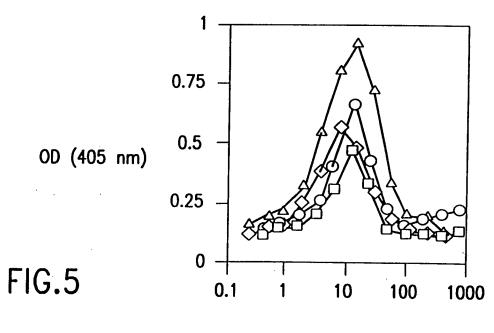
CDR2L(REV)

(3/9 = 33.3 %)

(5/8 = 62.5 %)

FIG.3





PEPTIDE CONCENTRATION (μ M)



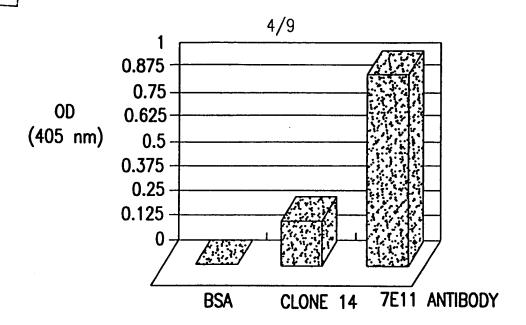


FIG.6

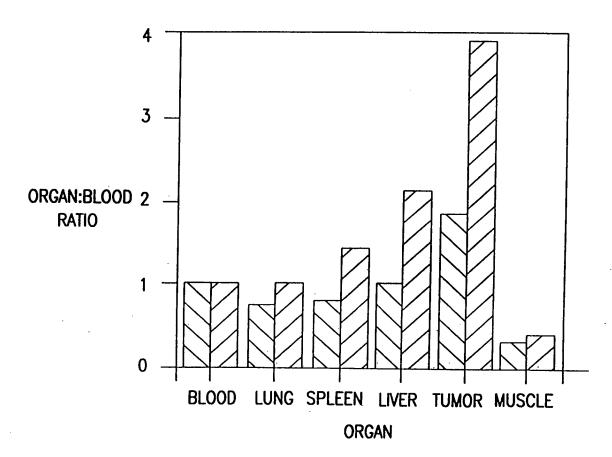
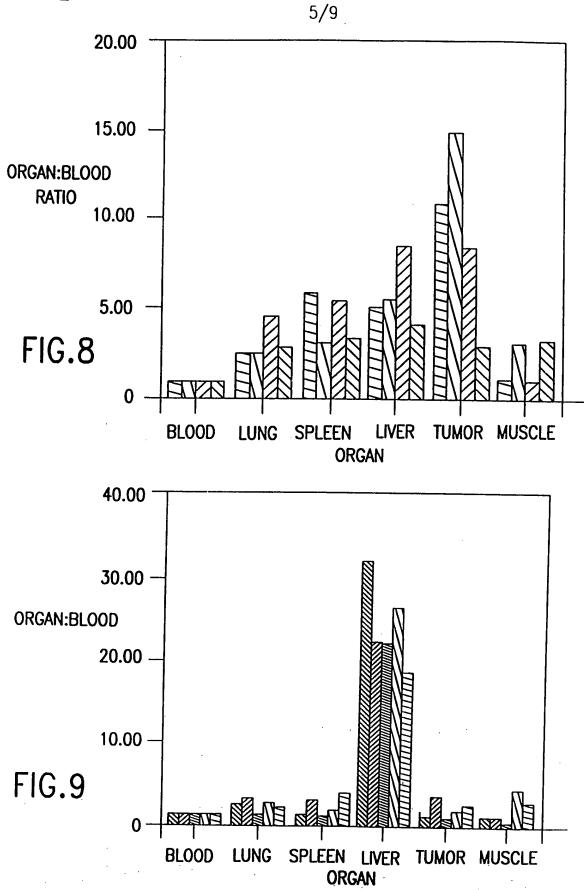


FIG.7



Sac II c.tgt.gcc.tcg.agB.(NNB)12.Ncc.gcg.g

> 99.cgc.cNV.(NNV)12.aga.tct.cgt.gtc N=A,G,T,C B=G,T,CFILL IN WITH DNA POLYMERASE V=G,A,C Xho I Ala

c.tgt.gcc.tcg.agB.(NNB)₁₂.Ncc.gcg.g

gg.cgc.cNV.(NNV)₁₂.aga.tct.cgt.gtc CLEAVE WITH Xho I + Xho I

tcg.agB.(NNB)₁₂.Ncc.gcg.g

99.cgc.cNV.(NNV)₁₂.tga.tc

LIGATE WITH Xho I + Xha I-CLEAVED M13 m663 VECTOR ELECTROPORATE INTO XL1-BLUE

LIBRARY OF PIII-RANDOM SEQUENCE FUSION PROTEINS

S H S | S (S/R) X₁₂π A θ X₁₂ S R | P π =S,P,T \square R A ∂=V,A,D,E, □R G SIGNAL PEPTIDASE CLEAVAGE SITE

FIG. 10

APPRING GOLDECLASS

G TGT GTC TCG AGN (NNB)20NAC GCC AN

NTG CGG TNV (NNV) AGA TCT GTG TTG

FILL IN WITH SEQUENASE

Xho I

N=A,C,G,T B=C,G,T

V=A,C,G

G TGT GTC TCG AGN (NNB)20NAC GCC AN

NTG CGG TNV (NNV)₁₅ AGA TCT GTG TTG

RESTRICT WITH Xho I AND Xba I

TCG AGN (NNB)20 NAC GCC AN

NTG CGG TNV (NNV) $_{15}$ AGA TC

LIGATE WITH Xho I + Xba I-CLEAVED M13mp18Xa

ELECTROTRANSFORM
E. coli JS5

D38 GENETIC DIVERSITY LIBRARY DISPLAYED AS RANDOM N-TERMINAL PIII FUSIONS

. . H S\S (S/R) X_{20} (Y/H/N/D) A (I/M/T/N/K/S/R) X_{15} S R

SIGNAL PEPTIDASE CLEAVAGE SITE



G TGT GTC TCG AGN (NNB)20GGT TGT GGT

CCA ACA CCA (NNV)20 AGA TCT GTG TTG

N=A,C,G,T B=C,G,T V=A,C,G

FILL IN WITH SEQUENASE

Xho I

G TGT GTC TCG AGN (NNB)20GGT TGT GGT

CCA ACA CCA (NNV) AGA TCT GTG TTG

RESTRICT WITH Xho I AND Xba I

TCG AGN (NNB)₂₀ GGT TGT GGT

CCA ACA CCA (NNV)20 AGA TC

| LIGATE WITH Xho I + Xba I-| CLEAVED M13mp18Xa

ELECTROTRANSFORM

DC43 GENETIC DIVERSITY LIBRARY DISPLAYED AS RANDOM N-TERMINAL PIII FUSIONS

. . H S $_{1}$ S (S/R) X $_{20}$ G C G X $_{20}$ S R

SIGNAL PEPTIDASE CLEAVAGE SITE

MP-1 oligo 2